PATENT COOPERATION TREATY

REC'D	0 1	FEB	2006
WIPO			PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			
FOR FURTHER ACTION See Form PCT/IPEA/416		ee Form PCT/IPEA/416	
International application No.	International filing date (day/month/	year) Priority date (day/month/year)	
PCT/F12005/000038	19-01-2005	19-01-2004	
International Patent Classification (IPC) o	r national classification and IPC		
See Supplemental Box			
Applicant			
ELEKTRA NEUROMAG OY e	1		
DEERTRA NEUROPAG UI E	t aı		
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 			
2. This REPORT consists of a total of	of 8 sheets, including t	his cover sheet.	
3. This report is also accompanied by	ANNEXES, comprising:		
l 53			
(sem to the applicant	and to the International Bureau) a tot	· · · · · · · · · · · · · · · · · · ·	
and/or sheets	lescription, claims and/or drawings when containing rectifications authorized by a Instructions).	nich have been amended and are the basis of this report this Authority (see Rule 70.16 and Section 607 of the	
sheets which s	supersede earlier sheets, but which this	s Authority considers contain an amendment that goes	
beyond the dis	sclosure in the international application	n as filed, as indicated in item 4 of Box No. I and the	
b (sent to the Internation		pe and number of electronic carrier(s))	
form only, as indicate	, containing a sequence	e listing and/or tables related thereto, in electronic	
form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. This report contains indications rel	ating to the following items:		
Box No. I Basis of	the report		
Box No. II Priority			
Box No. III Non-esta	ablishment of opinion with regard to n	ovelty, inventive step and industrial applicability	
Box No. IV Lack of	unity of invention		
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
Box No. VII Certain o	Box No. VII Certain defects in the international application		
Box No. VIII Certain o			
Date of submission of the demand		pletion of this report	
17, 11, 0005			
17-11-2005		26-01-2006	
Name and mailing address of the IPEA/SE Patent- och registreringsverket	Authorized	offic er	
Box 5055			
		ture Elnäs/MN elephone No. +46 8 782 25 00	
racsinine NO. +40 8 667 72 88		NO. +46 8 782 25 00	

Form PCT/IPEA/409 (cover sheet) (April 2005)

International application No.

PCT/FI2005/000038

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Cover sheet

INTERNATIONAL PATENT CLASSIFICATION (IPC):

A61B 5/04 (2006.01) **G01R** 33/02 (2006.01) G01R 19/00 (2006.01)

Form PCT/IPEA/409 (Supplemental Box) (April 2005)

International application No.
PCT/FI2005/000038

Вох	No. I	Basis of the report		
1. With regard to the language, this report is based on:				
	\boxtimes	the international application in the language in which i	t was filed	
		a translation of the international application into		,
		which is the language of a translation furnished for the	•	
		international search (Rules 12.3(a) and 23.1(b	•	
		publication of the international application (R	* **	:
		international preliminary examination (Rules	55.2(a) and/or 55.3(a))	
2.	furnish	regard to the elements of the international application that to the receiving Office in response to an invitation re not annexed to this report):	on, this report is based on (re under Article 14 are referred to	placement sheets which have been o in this report as "originally filed"
		the international application as originally filed/furnish	ed	
	\boxtimes	the description:		
		pages <u>1-8</u>		as originally filed/furnished
		pages* re	eceived by this Authority on	
		pages* re	ceived by this Authority on	
	\boxtimes	the claims:		
		pages		as originally filed/furnished
		pages*		ith any statement) under Article 19
				17-11-2005
	_	pages* re	eceived by this Authority on	
	\boxtimes	the drawings:		
		pages 1		as originally filed/furnished
		pages* re		
		a sequence listing and/or any related table(s) - see Su	pplemental Box Relating to Sequ	uence Listing.
3.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, Nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
	•	any table(s) related to the sequence listing (
4.		This report has been established as if (some of) the made, since they have been considered to go beyond 70.2(c)).	amendments annexed to this re the disclosure as filed, as indic	eport and listed below had not been cated in the Supplemental Box (Rule
		the description, pages		
				
		the drawings, sheets/figs		
		the sequence listing (specify): any table(s) related to the sequence listing (specify)		
*		4 applies, some or all of those sheets may be marked "	superseded."	

International application No.

PCT/FI2005/000038

Box No. II	Priority
	report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time the requested:
	copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
	translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
inval	report has been established as if no priority had been claimed due to the fact that the priority claim has been found id (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the ant date.
3. Additional	observations, if necessary:
Taulu 2 Aug	riority is considered valid. Therefore, document "Samu et al, International Congress Series 1270 (2004) 32-37, ust 2004, Clinical applications of the signal space tion method", is of no relevance for this report.
	·
!	
i	
	•

International application No.

PCT/FI2005/000038

Box No. 1	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:		
	the entire international application	
\boxtimes	claims Nos. 1-10 (in part)	
becaus	se:	
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):	
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):	
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):	
\boxtimes	no international search report has been established for said claims Nos. 1-10 (in part)	
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:	
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and	
·	manner acceptable to it. furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.	
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b) and 13ter.2.	
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it.	
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.	
	See Supplemental Box for further details.	

International application No.

PCT/FI2005/000038

Box No. V	Reasoned statement u	nder Article 3 ions supporti	55(2) with regard to novelty, inventive s ng such statement	rtep or industrial applicability;
1. Statement	:			
Nove	lty (N)	Claims Claims	1-10	YES NO
Inven	tive step (IS)	Claims Claims	1-10	YES NO
Indus	strial applicability (IA)	Claims Claims	1-10	YES NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1:US5408178

D2:US2002/0151779

D3:US4793355 D4:EP0483698

D1 discloses a method for measurement of magnetic fields in an object. The document teaches that the orientation of the object is varied (column 2, column 11, lines 63-65). The magnetic field is induced by external coils. Methods of detection and the location of magnetic fields from a current source in a living brain are disclosed.

D2 describes a method of measurement of magnetic fields from a brain: To improve the sensitivity a procedure of voluntary eye movements is described (paragraph [0046]).

D3 discloses the measurement and the location of magnetic fields produced by a body. From the movement of the body, the location of the field is determined in the sense of the body coordinates.

D4 discloses a method to locate the currents in a brain independent of the position and orientation of the magnetometers with respect to the head (column 1, lines 38-45).

The invention according to the amended claims is generally stated and covers all kinds of signals from a movable object, while support in the meaning of PCT Article 6 only is given for biomagnetic signals.

. . . / . . .

International application No.

PCT/FI2005/000038

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box $\,V\,$

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1.

The subject-matter of claim 1 differs from D1 in that the object is movable intentionally and unlimitedly. Furthermore, the relative movement is measured using the measuring instrument.

The subject-matter of claim 1 is therefore novel (Article 33(2) PCT).

-The problem to be solved by the present invention may therefore be regarded as a method to compensate for movement of the object.

-The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT).

-Claims 2-10 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

The invention is industrially applicable.

International application No. PCT/FI2005/000038

Box No. VIII	Certain observations on the international application
	observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully e description, are made:

The word "head" is missing in claim 9, last line.

Form PCT/IPEA/409 (Box No. VIII) (April 2005)